

Title (en)

HETEROCYCLIC COMPOUND AND ORGANIC SOLAR CELL COMPRISING SAME

Title (de)

HETEROCYCLISCHE VERBINDUNG UND ORGANISCHE SOLARZELLE DAMIT

Title (fr)

COMPOSÉ HÉTÉROCYCLIQUE ET CELLULE SOLAIRE ORGANIQUE LE COMPRENANT

Publication

**EP 3287452 A4 20180912 (EN)**

Application

**EP 16783398 A 20160420**

Priority

- KR 20150055432 A 20150420
- KR 2016004109 W 20160420

Abstract (en)

[origin: EP3287452A2] The present specification relates to a heterocyclic compound and an organic solar cell including the same.

IPC 8 full level

**C07F 7/02** (2006.01); **C07D 519/00** (2006.01); **H10K 99/00** (2023.01)

CPC (source: EP KR US)

**C07D 409/14** (2013.01 - KR); **C07D 417/14** (2013.01 - KR); **C07D 487/04** (2013.01 - KR); **C07D 519/00** (2013.01 - EP US); **C07F 7/02** (2013.01 - EP KR US); **C07F 7/0838** (2013.01 - EP US); **C09B 69/008** (2013.01 - US); **H10K 30/00** (2023.02 - US); **H10K 85/40** (2023.02 - US); **H10K 85/655** (2023.02 - US); **H10K 85/656** (2023.02 - US); **H10K 85/657** (2023.02 - KR); **H10K 85/6572** (2023.02 - KR US); **H10K 85/6576** (2023.02 - KR); **H10K 30/30** (2023.02 - EP KR US); **H10K 30/50** (2023.02 - EP KR); **H10K 85/657** (2023.02 - US); **Y02E 10/549** (2013.01 - EP)

Citation (search report)

- [A] WO 2013150005 A1 20131010 - BASF SE [DE], et al
- [A] HUITAO BAI ET AL: "A bipolar small molecule based on indacenodithiophene and diketopyrrolopyrrole for solution processed organic solar cells", JOURNAL OF MATERIALS CHEMISTRY A, vol. 2, no. 3, 1 January 2014 (2014-01-01), GB, pages 778 - 784, XP055393547, ISSN: 2050-7488, DOI: 10.1039/C3TA13816J

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3287452 A2 20180228**; **EP 3287452 A4 20180912**; **EP 3287452 B1 20201104**; CN 107531731 A 20180102; CN 107531731 B 20210219; KR 101785200 B1 20171017; KR 20160124705 A 20161028; US 10906922 B2 20210202; US 2018057515 A1 20180301; WO 2016171465 A2 20161027; WO 2016171465 A3 20161222

DOCDB simple family (application)

**EP 16783398 A 20160420**; CN 201680020493 A 20160420; KR 2016004109 W 20160420; KR 20160048322 A 20160420; US 201615557972 A 20160420